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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,672	03/30/2001	Michael P. Dallmeyer	051252-5189	4276
9629	7590	11/14/2003	EXAMINER	
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			KIM, PAUL D	
			ART UNIT	PAPER NUMBER
			3729	

DATE MAILED: 11/14/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/820,672	DALLMEYER ET AL.	
	Examiner Paul D Kim	Art Unit 3729	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 12 August 2003.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-24 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-24 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____ .

**DETAILED ACTION**

1. This office action is a response of the amendment filed on 8/12/2003.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Dallmeyer et al. (US PAT. 6,499,668).

The applied reference has a common assignee and inventors with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Dallmeyer et al. teach a method of manufacturing a fuel injector comprising steps of: providing a clean room; fabricating a fuel tube assembly (200A,200B) as shown in

Fig. 2; fabricating an armature assembly (260) as shown in Fig. 2; fabricating a seat assembly (250) as shown in Fig. 1; and assembling a fuel group comprising: inserting an adjusting tube (280) into the fuel assembly; inserting biasing element (270) into the fuel tube assembly; inserting the armature assembly into the fuel tube assembly; connecting the seat assembly to the fuel tube assembly; and inserting the fuel group into a power group outside the clean room (col. 3, line 6 to col. 10, line 50).

As per claims 2 and 12 Dallmeyer et al. teach a process of connecting an inlet tube (210) to a magnetic pole piece (220) as shown in Fig. 1.

As per claims 3 and 13 Dallmeyer et al. teach a process of connecting a magnetic pole piece (220) to a non-magnetic shell (230) as shown in Fig. 1.

As per claims 4 and 14 Dallmeyer et al. teach a process of connecting a non-magnetic shell (230) to a valve body (240) as shown in Fig. 1.

As per claims 5 and 15 Dallmeyer et al. teach a process of connecting a magnetic armature (262) to a non-magnetic sealing element (264) to as shown in Fig. 1.

As per claims 6 and 16 Dallmeyer et al. teach a process of connecting an armature tube (266) between the magnetic armature and the sealing element as shown in Fig. 1.

As per claims 7 and 17 Dallmeyer et al. teach a process of connecting a sealing element guide to a valve seat (250) to as shown in Fig. 1.

As per claims 8, 9, 18 and 19 Dallmeyer et al. teach a process of installing a filter (284A) into the fuel tube assembly and connecting to the adjusting tube as shown in Fig. 1.

As per claim 11 Dallmeyer et al. teach a process of setting an injector lift height disclosed in col. 5, lines 55-59.

As per claim 20 Dallmeyer et al. teach that the armature tube is non-magnetic disclosed col. 4, lines 3-16.

As per claims 21 and 23 Dallmeyer et al. teach a process of hermetic sealing between an orifice disc and the seat disclosed in col. 8, lines 47-49.

As per claims 22 and 24 Dallmeyer et al. teach that the seat assembly (250) and the sleeve (255) are fixedly attached to the valve body by laser welding as disclosed in col. 5, line 66 to col. 6, line 7.

#### ***Response to Arguments***

4. Applicant's arguments filed 9/12/2003 have been fully considered but they are not persuasive. Applicant argues that Dallmeyer et al. of the prior art of record fails to disclose the claimed invention. Applicant argues that Dallmeyer et al. teach a process of assembly disclosed at col. 8, lines 3-34 opposite to the order recited in claims 1 and 10. Examiner traverses the argument. Even though Dallmeyer et al. do not teach the exact sequential order of assembly process as recited in claim 1, the assembly process as disclosed in cols. 7 and 8, steps 1-35, which processes are exactly the same processes with a top-down or a bottom-up processes as specified in the specification on Page 10-12, steps 1-35. Also, even though applicant's modification results in great improvement and utility over the prior art, it may still not be patentable if the modification was within the capabilities of one skilled in the art. More particularly, where the general conditions

of claims are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. In this instance applicant has failed to establish the exact sequential order of assembly process as claimed are critical.

***Conclusion***

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D Kim whose telephone number is 703-308-8356. The examiner can normally be reached on Tuesday-Friday between 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5648.

pdk

PETER VO  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3700